



BEAUTIFUL,
SUSTAINABLE,
TOGETHER:

Life

IN THE NEW
EUROPEAN
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#NewEuropeanBauhaus

LIFE IP CA 2016 BE-REEL!

Eddy DERUWE /

Flemish Energy and Climate Agency (VEKA)

BELGIUM



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Reaching long term renovation targets

**Very few
citizens
on board**

Solving poor energy performance homes

Getting low home renovation rate right



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Belgium

CHALLENGES



With the contribution
of the LIFE financial
instrument of the
European Union



Vlaanderen



LTRS Strategic options (Region of Flanders)



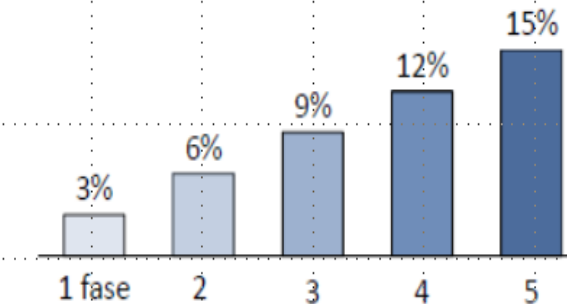
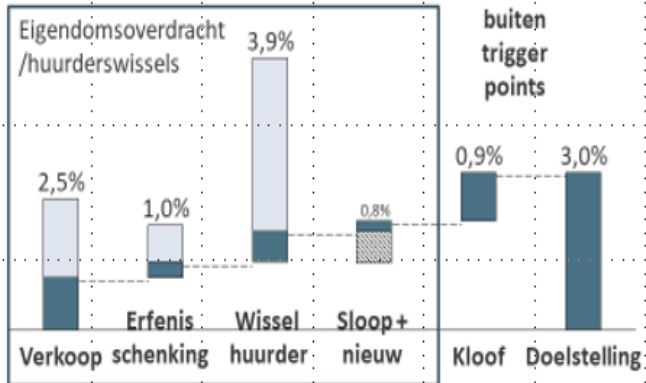
Outphasing worst performing homes



Using Key moments



**Creating Impact
Initiating & realising
deep renovations**



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BELGIUM
RENOVATES
FOR ENERGY
EFFICIENT
LIVING

BE
reel!

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Regional Authorities

**Flemish Energy and
Climat Agency - VEKA**
(coordinator)

**Service Public de
Wallonie - TLPE –**

Local Authorities

- **City of Ghent**
- **City of Antwerp**
- **City of Mechelen**
- **City of Mouscron**
- **City of La Louvière**



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Knowledge Centres

Belgian Building Research Institute- BBRI - (WTCB-CSTC)

Knowledge Centre Cities – KVS - (Kenniscentrum Vlaamse Steden)



Vlaamse
overheid



Wallonie



Creating Impact – Initiating & realising deep renovations

New policy instruments

Demonstration projects

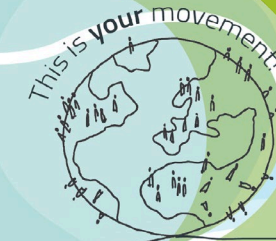
Innovative business models

Capacity building

Best Practice

Getting citizens on board

ON



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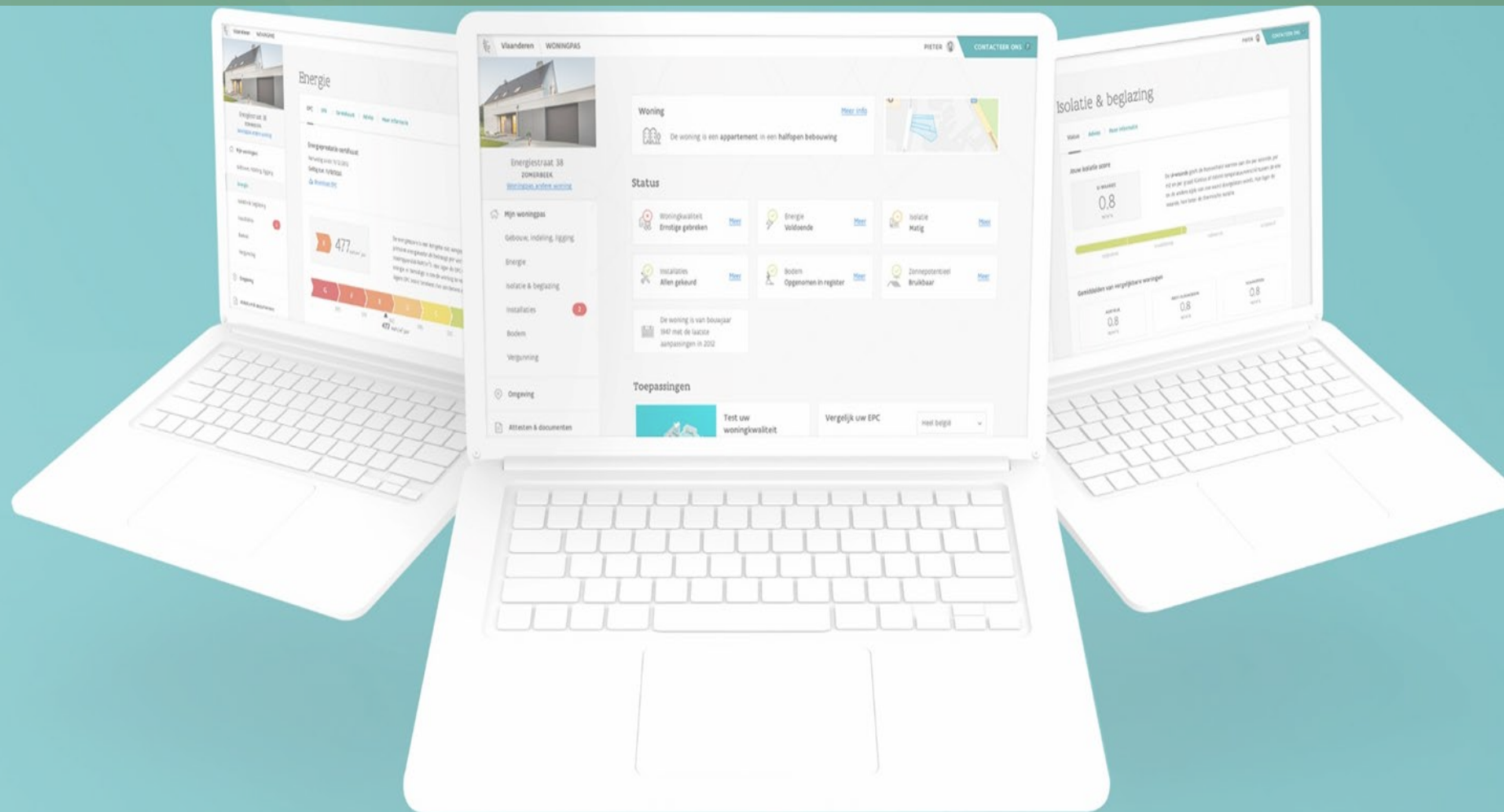
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policy instruments



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WONINGPAS



Vlaamse
overheid

Housing Passport!





policy instruments

FEUILLE DE ROUTE

Audit n° : A20140313-1ES1
Date d'enregistrement : 28.08.2013
Date de modification : 13.03.2014
Certificat PEB d'origine n° :

Demandeur
Nom / Prénom : Dupont, Laurent
Auditeur agréé n° : PAE2-P1-00036
Nom / Prénom : Van Goethem, Carole

Date et signature de l'auditeur

SITUATION INITIALE

ÉTAPE 1

ÉTAPE 2

ÉTAPE 3

ÉTAPE 4



SANTÉ/CONFORT

Qualité air :
Surchauffe :

Adresse du bâtiment :
Rue : Rue de Nivelles
N° : 13 - Boite :
CP : 1435 - Localité : Mont-St-Guibert

Type de bâtiment :
maison unifamiliale

Année de construction :
1967

Surface de plancher chauffé (Ach) :
97 m²

- Isolation de 20 m² de fenêtres (pages 32 à 34)
- Améliorer l'étanchéité à l'air (page 35)
- Installer un système D avec échangeur de chaleur (pages 36 à 38)

COÛT

17595 €
PRIME DE BASE : 279 €

SANTÉ/CONFORT

Qualité air : (page 37)
Surchauffe :

69498 kWh/an

Gains théoriques // Gains estimés sur base des consommations réelles

-17061 kWh/an
(- 560 €/an)

- Isolation de 97 m² de toiture (page 33)
- Isolation de 162 m² de murs (pages 40 à 42)
- Isolation de 97 m² de plancher (page 43)

COÛT

28142 €
PRIME DE BASE : 6550 €

SANTÉ/CONFORT

Qualité air :
Surchauffe :

52437 kWh/an

-40195 kWh/an
(- 3169 €/an)

- Remplacement de la chaudière par un générateur de chaleur plus performant : chauffage central (page 44)
- Remplacement du système de production d'eau chaude sanitaire : installation eau chaude salle de bain et installation eau chaude cuisine (page 45)

COÛT

5500 €
PRIME DE BASE : 600 €

SANTÉ/CONFORT

Qualité air :
Surchauffe :

12242 kWh/an

-2715 kWh/an
(- 321 €/an)

- Placer une installation solaire photovoltaïque (page 46)

COÛT

4000 €
PRIME DE BASE : 0 €

SANTÉ/CONFORT

Qualité air :
Surchauffe :

6071 kWh/an

-2656 kWh/an
(- 592 €/an)

LABEL G

LABEL G

LABEL B

LABEL B

OBJECTIF 2050
LABEL A+

Tous les coûts et primes sont donnés, de façon indicative, à la date de la réalisation de la Feuille de Route.



With the contribution of the LIFE Financial Instrument of the European Union

ment financier LIFE de la Commission Européenne
REEL



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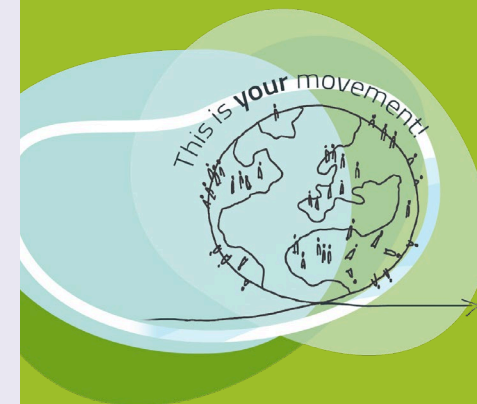
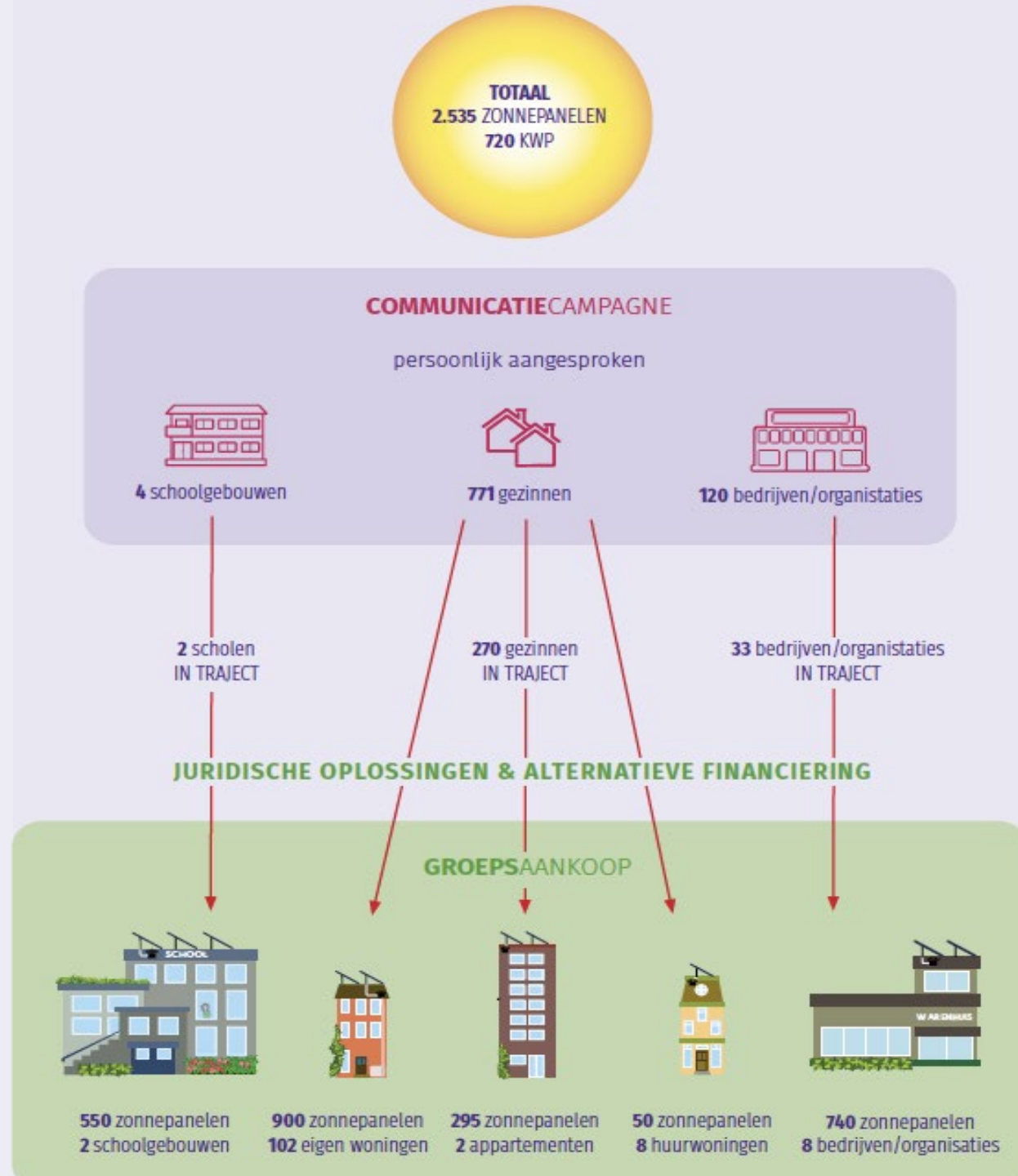
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INNOVATIVE BUSINESS MODELS

ENERGY COMMUNITIES



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Demonstration projects



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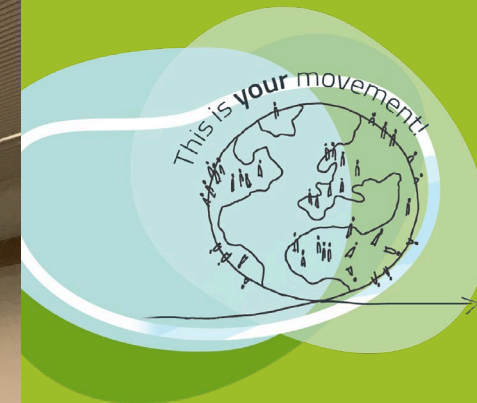
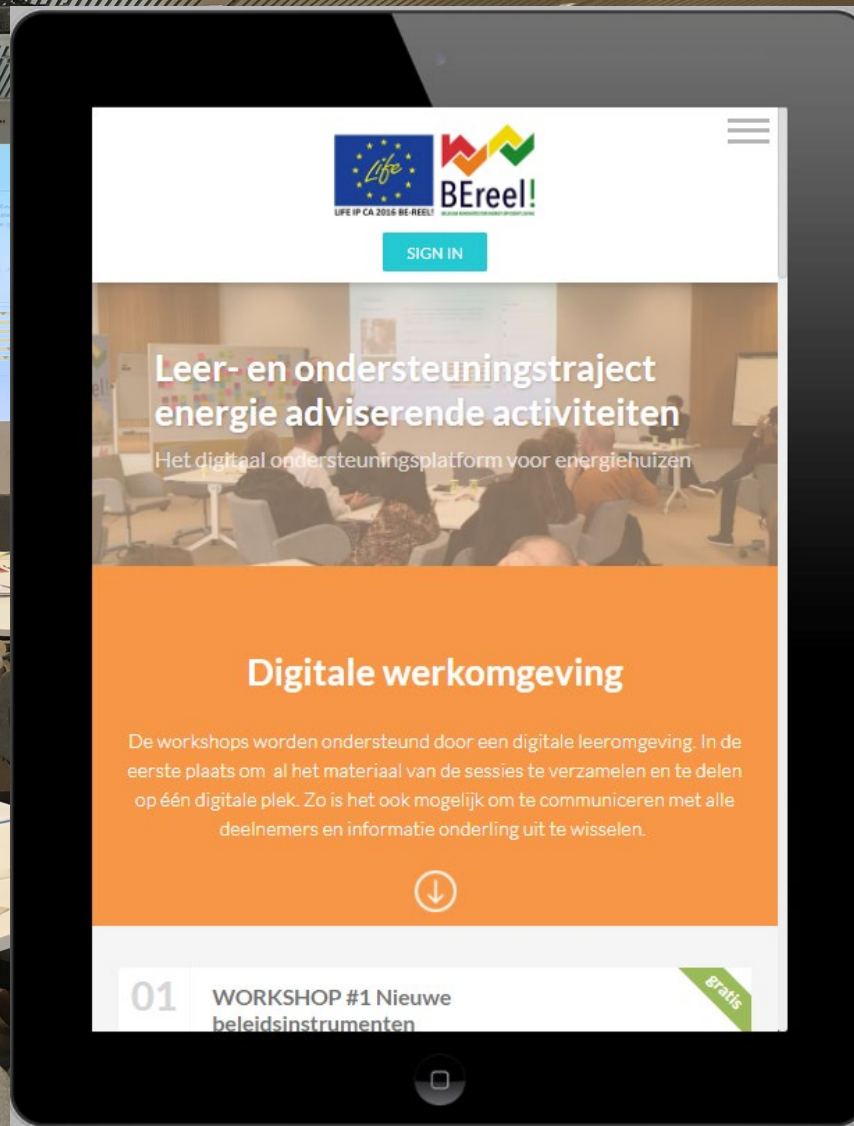
Capacity Building

Awareness action

1st level advice

2nd level detailed advice

3rd level expert advice



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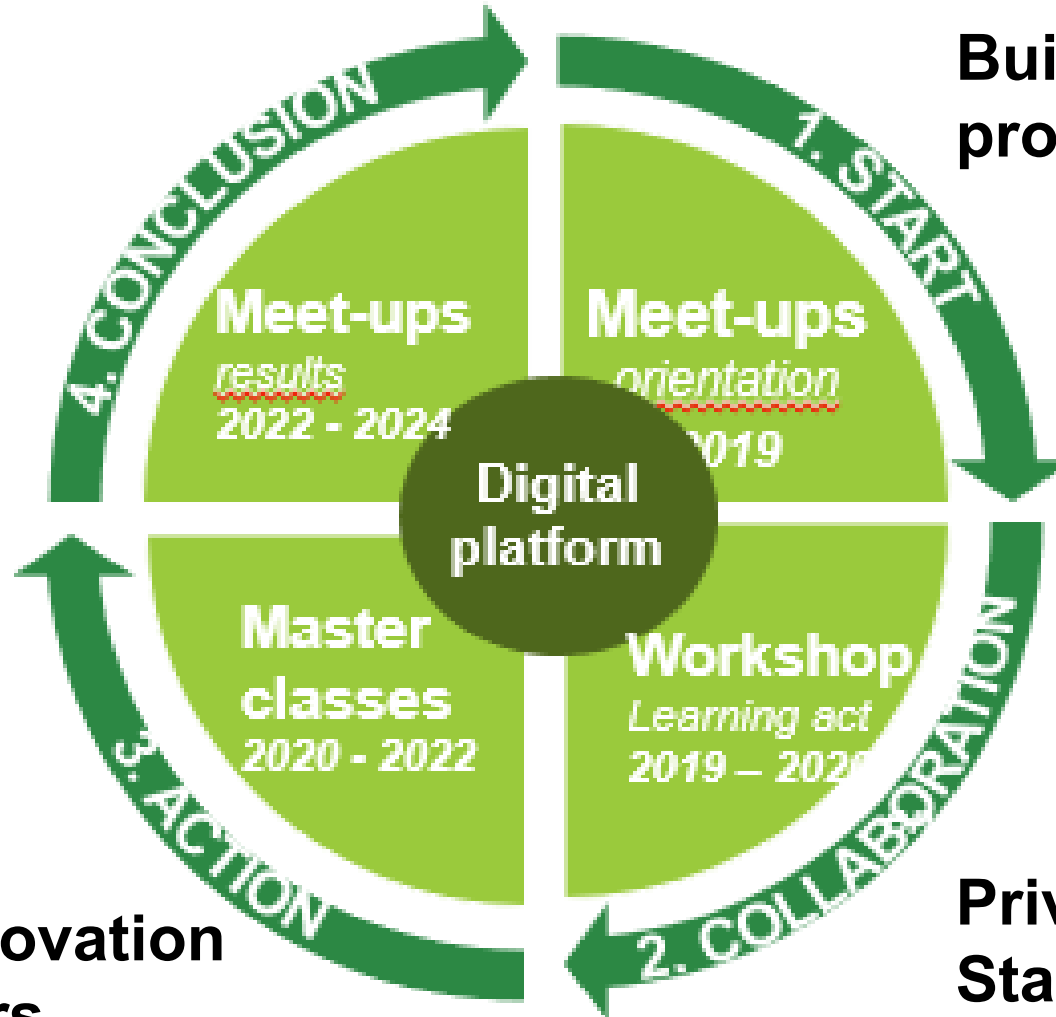


Best Practices - Policy instruments - Business Models

**Regional
authorities**

**Local
Authorities**

**Energy & renovation
advice centers**



**Building
professionals**



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**Private
Stakeholders -**



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**Informing – advising – supporting – monitoring
Inciting Citizen action on deep renovation > 2050**



IS KEY:

EXCHANGING STATE OF THE ART KNOWLEDGE

INPUT FOR NEW BUSINESS MODELS + FINANCING

ENGAGEMENT OF STAKEHOLDER COLLABORATION

ROADMAP LOCAL STRATEGY DEVELOPMENT FOR STEPS 2050

PLUG-ING IN BAUHAUS CONCEPT (CITIZEN INVOLVMENT, SUSTAINABLE GOALS, CIRCULAR ECONOMY)

BE REEL! BELGIUM RENOVATES FOR ENERGY EFFICIENT LIVING

The renovation game 2050
will only be won
by the citizens themselves,
public authorities
have to supported them

Getting
citizens
on board!



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THANK YOU!

Eddy DERUWE
Coördinator BE Reel!

**VLAAMS ENERGIE EN KLIMAATAGENTSCHAP
(VEKA)**

LIFE IP 2016 BE REEL!

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